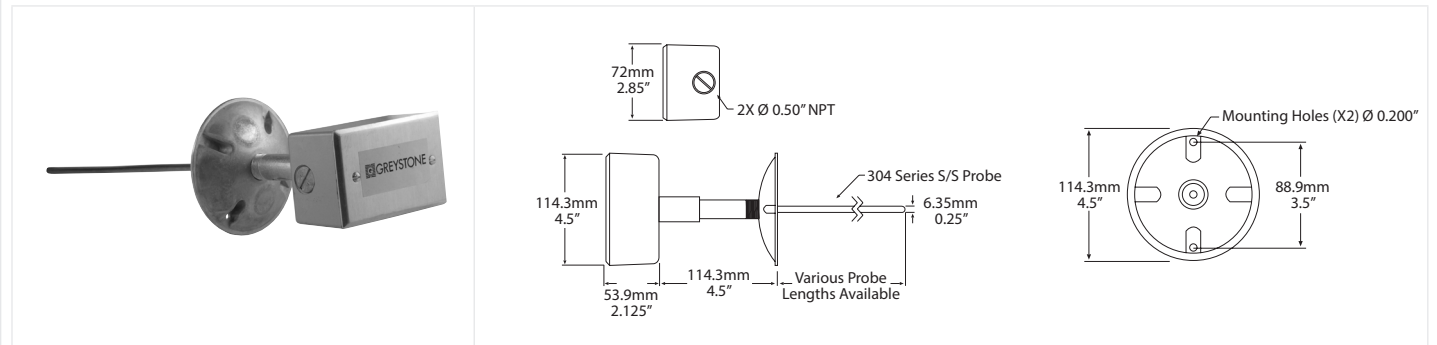




STACK TEMPERATURE TRANSMITTER



TE500H SERIES

PRODUCT DESCRIPTION

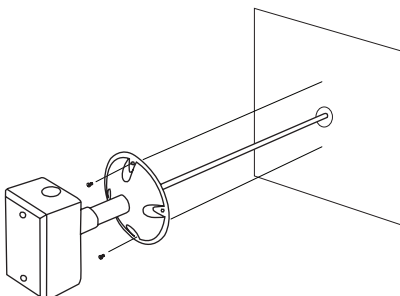
The TE500H series single point rigid stack temperature transmitter utilizes a precision, high temperature rated platinum RTD sensor that is encapsulated in 6.35 mm (0.25") OD, 304 series stainless steel probe and is available in various lengths. All probes provide excellent heat transfer, fast response and resistance to moisture penetration. A weatherproof enclosure is provide for wire termination. A transmitter that provides a high accuracy signal with excellent long term stability, low hysteresis and fast response is provided.

TYPICAL INSTALLATION

For complete installation and wiring details, please refer to the product installation instructions.

The stack type probes are installed in the side of an exhaust stack to monitor the flue gas temperatures. Select a probe length that allows the probe tip close to the center of the stack. Install the probe through a hole in the side of the stack and mount by securing the flange directly on the side.

A weatherproof enclosure is provided for wiring connections.



SPECIFICATIONS

SENSOR	100Ω Platinum RTD or 1000Ω Platinum RTD Wire wound, 3 wire, IEC 751, 385 Alpha
SENSOR ACCURACY	±0.3°C (±0.54°F) @ 0°C (32°F)
PROBE TEMPERATURE RANGE	-100 to 600°C (-148 to 1112°F)
WIRE MATERIAL	22 AWG, fiberglass jacket
PROBE MATERIAL	304 series stainless steel
PROBE DIAMETER	6.35mm (0.25")
OUTPUT SIGNAL	4-20 mA current loop, 0-5 Vdc, or 0-10 Vdc (factory configured)
TRANSMITTER ACCURACY	±0.1% of span, including linearity
4-20 mA LOOP POWER SUPPLY	15-35 Vdc or 22-32 Vac
MINIMUM CURRENT LOOP	2 mA nominal (occurs with shorted sensor)
MAXIMUM LOOP CURRENT	22.5 mA nominal (occurs with open sensor)
MAXIMUM LOOP LOAD	>600Ω
0-5 VDC POWER SUPPLY	10-35 Vdc or 10-32 Vac
0-10 VDC POWER SUPPLY	15-35 Vdc or 15-32 Vac
MAXIMUM CURRENT (VOLTAGE)	5 mA nominal
MAXIMUM OUTPUT (VOLTAGE)	Limited to <5.5 Vdc for 0-5 Vdc, <10.5 for 0-10 Vdc
INPUT VOLTAGE EFFECT	Negligible over specified operating range
RFI REJECTION	Good RFI rejection of normal frequencies
PROTECTION CIRCUITRY	Reverse voltagae protected and output limited
AMBIENT CONDITIONS	0 to 70°C (32 to 158°F), 0-95 %RH non-condensing
ENCLOSURE	(W) - Cast aluminum, IP64 (NEMA 3X)
WIRING CONNECTIONS	Screw terminal block (14 to 22 AWG)
COUNTRY OF ORIGIN	Canada



ORDERING		
PRODUCT	TE500H	Stack Temperature Transmitter
SENSOR	4 28	100Ω Platinum, 3 wire, IEC 751, 385 Alpha, wire wound 1000Ω Platinum, 3 wire, IEC 751, 385 Alpha, wire wound
PROBE LENGTH	A2 B2 C2 D2 E2 F2	50mm (2") 100mm (4") 150mm (6") 200mm (8") 300mm (12") 450mm (18")
OUTPUT	1A 1D 1E	4-20 mA 0-5 Vdc 0-10 Vdc
TRANSMITTER SCALED RANGE	9H 7N *	0 to 600°C 0 to 1000°F Custom ranges available
NOTE: Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.		
CUSTOM SCALED RANGE		

PART NUMBER
TE500H